

*Tornatellides*<sup>1</sup> Pils. 1910, type *T. simplex* Pse.

*Tornatellaria* Pils. 1910, type *T. newcombi* Pfr.

*Auriculella* and *Tornatellaria* are restricted to the Hawaiian Islands. *Lamellorum* and *Elasmatina* to Rapa. The other groups have a wider range. *Lamellidea* and *Tornatellides* range from the Bonin, Luchu and Hawaiian Islands to New Zealand; *Elasmias* from the Japanese Oceanic Islands to Australia, while *Lamellina* does not go south farther than Micronesia and Polynesia. There are some New Caledonian species of *Tornatellina*, but the absence of records of *Tornatellinidæ* from the Solomons, New Hebrides and other Melanesian islands is remarkable, and must be due to these minute shells being overlooked. The family is represented by a solitary species in the Galápagos.

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#### A CONCHOLOGICAL MUSEUM FOR JAPAN.

BY Y. HIRASE.

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As I stated in the late issue of my paper I am going to establish a conchological museum in the near future and I hope I shall be able to contribute a little to this branch of study. Hon. S. Omori, Governor of Kyoto-Prefecture, Dr. H. Kinoshita, Ex-President of the Kyoto Imperial University, Dr. Y. Tanaka, a member of the House of Peers and two or three others of eminence promised to render assistance, if need be, and are in deep sympathy with my undertaking. I am well convinced that I shall be able to carry out my plan and attain my object, the establishment of a conchological museum.

For the building expenses of the museum, I rely for \$5,000 upon the generosity of persons interested in science in foreign countries. It is not intended to ask contributions, but to issue sets of Japanese shells, the proceeds to be applied to the museum.

Each lot or set contains 500 species of Japanese shells, valued at \$100. Many sets are prepared and can be sent as soon as I receive orders. As to the 500 species in each set, they shall be subject to selection. Let me hear the names of the species desired.

As already said, I do not wish for cash contributions to the museum.

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<sup>1</sup>The term *Tornatellides* differs sufficiently in spelling and etymology from *Tornatelloides* Pfr.

Yet such donations as specimens of shells, shell fancy-work, books, papers and pamphlets which have descriptions or pictures of shells, etc., will heartily be welcomed. They shall be arranged in cases in the museum, carefully preserved and duly credited to the donors.

*Kyoto, Japan.*

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A NEW VARIETY OF LYMNÆA STAGNALIS.

BY FRANK C. BAKER.

(Concluded from page 113).

*Remarks:* *Lymnæa stagnalis lillianæ* may be known by its short spire, long and narrow aperture, and compressed body-whorl. It was at first thought to be a form of *sanctaemariae*, but a comparison with that species shows it to be uniformly narrower with compressed body-whorl, and more acute spire. In *sanctaemariae* the body-whorl is always very rotund; the aperture is also roundly ovate, while in *lillianæ* it is elongate-ovate. The musculature of the male organ is also quite different from *sanctaemariae*, and similar to that of *appressa*. *Lillianæ* differs from *appressa* in its short spire, flattened and compressed body-whorl and elongated aperture. It appears to be a distinguishable race of *L. stagnalis*.

No true *appressa* were found associated with this race in Tomahawk Lake. There were a few specimens with spires and aperture of equal length, showing clearly that the race is a modification of the *appressa* type, caused, doubtless, by a change of environment.

At Isle Royale, in Lake Superior, a form of *stagnalis* occurs which at first sight appears quite distinct. A number of individuals, however, approach very closely to var. *lillianæ* and they may be referred provisionally to this race. Judging from the material at hand, this is a transition form between *appressa* and *lillianæ*, representing, perhaps, one of the stages in the evolution of the race. The Isle Royale form "is characteristic of the quieter waters of the long, narrow harbors which are such a remarkable feature of the Island." (Walker). Typical *lillianæ* lives on a wave-beaten shore, and this precarious environment has caused the aperture to become enlarged to provide for the larger foot to enable it to retain its hold on submerged objects. The Isle Royale form, living in quieter water, has not developed the large aperture of the Tomahawk Lake shell.